PATENT DOCKET 205,286

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**APPLICANT:** 

STEGER, Carsten

**EXAMINER:** 

**SERIAL** 

NO.:

**ART UNIT:** 

FILED:

FOR:

SYSTEM AND METHOD FOR OBJECT RECOGNITION



#### STATEMENT OF FILING BY EXPRESS MAIL 37 C.F.R. § 1.10

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## INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

This Information Disclosure Statement (hereinafter sometimes referred to as "IDS") is submitted in accordance with 37 C.F.R. §§1.97,1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. §1.97, as it is filed:

(Check one of the boxes opposite A-D)

[X] A. within three months of the filing date of the above-identified national application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in the above-identified international application.

[] B. before the mailing date of a first office action on the merits.				
[] C. after the times set forth in (A) and (B) above, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a notice of allowance under 37 C.F.R. §1.311, and the necessary statement pursuant to 37 C.F.R. §1.97(e) appears below (see box "i") or the necessary fee is enclosed (see box "ii" below).				
(check one of the boxes opposite "i" or "ii" below)				
[] i. (check the applicable statement)				
[ ] I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.				
[ ] I, the undersigned, hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.				
[] ii. A check for the fee set forth in 37 C.F.R. §1.17(p), presently believed to be \$ 240.00, is enclosed.				
[] D. after the times set forth in (A), (B), and (C) above, but before payment of the issue fee, since Applicant petitions for the consideration of this Information Disclosure Statement by a petition enclosed herewith pursuant to 37 C.F.R. §1.97(d)(2), a check for the petition fee set forth in 37 C.F.R. §1.17(i), presently believed to be \$ 130.00, is enclosed, and the necessary statement pursuant to 37 C.F.R. §1.97(e) appears below:				
(check the applicable statement)				
[ ] I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.				
[] I, the undersigned, hereby state that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge				

after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

2. In accordance with 37 C.F.R. §1.98(a)(1), this IDS includes a list on form PTO-1449 of all patents, publications, or other information submitted for consideration by the Office, incorporated into this IDS as an attachment hereto. Pursuant to 37 C.F.R. §1.98(b): (i) each U.S. patent listed is identified by patentee, patent number, and issue date; (ii) each foreign patent or published foreign patent application is identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application; and (iii) each publication is identified by author (if any), title, relevant pages of the publication, date, and place of publication. A legible copy of each document listed is attached and incorporated into this IDS, except that no copy of any U.S. patent application is included pursuant to 37 C.F.R. §1.98(a)(2)(iii) and except as explained below.

(check the boxes opposite A and/or B and fill in blanks, if appropriate)

[] A. Document(s) is (are) substantively cumulative to document(s), and, in accordance with 37 C.F.R. §1.98(c), only a copy of each of the latte
document(s) is (are) attached.
[] B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon for an earlier filing date under 35 U.S.C §120:
[insert serial numbers and filing dates of prior applications]
These documents are identified by attaching hereto copies of the forms PTO-892 and/or PTO-1449 from the files of the prior application(s) and Applicant requests that they be considered and made of record in this application in accordance with 37 C.F.R. §1.98(d). Pursuant to 37 C.F.R. §1.98(d), copies of these documents need not be provided with this IDS.
(check paragraphs 3 and/or 4, if applicable)
[] 3. Document(s) is (are) not in the English language. In accordance with 3° C.F.R. §§1.98(a)(3),1.98(c), it is stated that:
(check the applicable statement(s))
[] English translation(s) of the document(s) (or of the pertinent portion thereof) is (are) enclosed and, thus no concise explanation of their relevance is required, (see M.P.E.P., §609, p. 600-92).

[ ] English-language equivalent(s) of the document(s)(	or of the pertinent
portions thereof) which is (are) in fact translation(s) of the document(s) is (a	re) enclosed.
[] The attached English-language version of a search report or other a patent office in a counterpart foreign application which cites document(s) at the degree of relevance found by the foreign office is submitted to satisfy the a concise explanation of the relevance of the document(s), (see M.P.E.P., §	nd which indicates ne requirement for
[] A concise explanation of the relevance of document(s)as follows:	is set forth
[insert concise explanation of relevance] [] A concise explanation of the relevance of document(s) found on page(s) of the specification.	can be
[ ] A concise explanation of the relevance of document(s) found on the attached sheet.	can be
[ ] 4. Other information being provided for the Examiner's consider	ation follows:
[insert other information]	

5. In accordance with 37 C.F.R. §§1.97(g),1.97(h), the filing of this IDS shall not be construed as a representation that a search has been made or as an admission that information cited in this IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

6. Please charge any deficiency or other fees or credit any refund or overpayment to Deposit Account No. 01-0035.

Respectfully submitted,

Thomas E. Spath

Attorney for Applicant Registration No. 25,928

ABELMAN, FRAYNE & SCHWAB 150 East 42nd Street New York, NY 10017-5612 (212) 949-9022

# FORM PTO-1449 (MODIFIED)

LIST OF PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

Examiner

Atty Docket No: 205,286 Serial No:

Unknown

Applicant:

STEGER, Carsten

Filing Date:

Group:

	NCE DESIGNAT	ION U	.S. PATENT	DOCUMENTS		
EXAMINER INITIAL	DOCUMENTO	DATE		NAME	CLASS/SUBCLASS	FILING DATE  IF APPROPRIATE
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	,550,933	27 AUG 1	996	Stetten	382/199	٤ 🚞
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INITIAL	DOCUMENTO	DATE	COUNTRY		CLASS/SUBCLASS	
EXAMINER INITIAL			Office Lett	TITLE,		<b>DATE</b>
2.	Office Letter/Search Report				07 MAR 01	
3.	3. Cambridge University Press		Numerical Recipes In C: The Art of Scientific Computing (ISSN-521-43108-5)			1988-92
4.	4. Shang-Hong Lai & An accurate and Fast Pattern Localization Ming Fang Algorithm for Automated Visual Inspection; Real-Time Imaging 5, 3-14 (1999)		Inspection;	1999		
5.	Carsten Stege	r	An Unbiased Structures	Detector of Curvil		Feb 1998
6.	Lisa Gottesfe	ld Brown	=	Image Registration of Computer Science	_	

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

#### FORM PTO-1449 (MODIFIED)

LIST OF PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

Atty Docket No: 205,286

Serial No:

Applicant: Filing Date:

STEGER, Carsten

09/965236

OTHER DOCUMENTS

Group:

(continued)

EXAMINER				<del>-</del> -	
INITIAL	REF NO	AUTHORITILE,	DATE.	PERTINENT PAGES,	ETC.

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7. Steven L. Tanimoto	Template Matching in Pyramids; Dept. Compute: Science, University of Washington, Seattle, Washington 98195;	r 11 JUN 80
8. William J. Rucklidge	Efficiently Locating Objects Using the Hausdorff Distance; Int'l Journal of Computer Vision 24(3), pgs. 251-270	
9. D.H. Ballard	Generalizing The Hough Transform To Detect arbitrary Shapes; Pattern Recognition	23 SEP 80
<pre>10. Olson, Clark F. &amp;    Huttenlocher, Daniel P.</pre>	Automatic Target Recognition by Matching Oriented Edge Pixels; IEEE Transaction on Image Processing	JAN 1997
11. Hartley, Richard & Zisserman, Andrew	Multiple View Geometry in Computer Vision; Cambridge Press	N/A
12. Canny, John	A Computational Approach to Edge Detection; reprinted from IEEE Transactions on Pattern Analysis and Machine Intelligence.	NOV 1986
13. Andreas Busch	Fast Recognition of Lines in Digital Images Without User-Supplied Parameters; Institut fur Angewandte Geodosiei	N/A
14. Bunilla Borgefors	Hierarchical Chamfer Matching: A Parametric Edge Matching Algorithm; Transactions on Analysis and Machine Intelligence, Vol. 10,	

Examiner

Date Considered

No. 6

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